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(71) Applicant (for all designated States except US):	osiri	KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CF, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NI		

## (72) Inventors; and

(75) Inventors/Applicants (for US only): THIEDE, Mark [US/US]; 12572 Markaire Drive, St. Louis, MO 63146 (US). FLAKE, Alan [US/US]; 1131 Springmont Circle, Bryn Mawr, PA 19010 (US).

Baltimore, MD 21231-2001 (US).

THERAPEUTICS, INC. [US/US]; 2001 Aliceanna Street,

(74) Agents: LILLIE, Raymond et al.; Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart & Olstein, 6 Becker Farm Road, Roseland, NJ 07068 (US).

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### (54) Title: IN UTERO TRANSPLANTATION OF HUMAN MESENCHYMAL STEM CELLS

### (57) Abstract

The present invention is directed to mesenchymal stem cells for transplantation in utero. Such mesenchymal stem cells may be employed in a method of treating a fetus, or in a method of engrafting mesenchymal stem cells, or in a method of preparing an organ for transplantation.

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